



# 2018 Hazard Mitigation Plan Update Montgomery County



Kick-Off Meeting  
December 14, 2017



- Project Overview
- 2018 Plan Update Process
- Five Year Plan Review
- Exercise #1: Hazard Ranking
- Exercise #2: Capability Assessment Survey
- Questions and Next Steps



# What is hazard mitigation?

- Hazard mitigation is any sustained action taken to reduce or eliminate long-term risk to life and property resulting from natural and human-made hazards.



## What is a hazard mitigation plan?

- A Hazard Mitigation Plan (HMP) is a community-driven, living document that communities use to reduce their vulnerability to hazards.

## Why have a hazard mitigation plan?

- Counties must have a plan to maintain access to mitigation grants. These grants can augment local mitigation activities already being accomplished and can leverage other funding sources.



## FEMA Grant Program Eligible Activities (as of June 20, 2017)

Mitigation Activity	HMA Program		
	HMGP	PDM	FMA
<b>1.Mitigation Projects</b>	✓	✓	✓
Property Acquisition and Structure Demolition	✓	✓	✓
Property Acquisition and Structure Relocation	✓	✓	✓
Structure Elevation	✓	✓	✓
Mitigation Reconstruction	✓	✓	✓
Dry Floodproofing of Historic Residential Structures	✓	✓	✓
Dry Floodproofing of Non-residential Structures	✓	✓	✓
Generators	✓	✓	
Localized Flood Risk Reduction Projects	✓	✓	✓
Non-Localized Flood Risk Reduction Projects	✓	✓	
Structural Retrofitting of Existing Buildings	✓	✓	✓
Non-structural Retrofitting of Existing Buildings and Facilities	✓	✓	✓
Safe Room Construction	✓	✓	
Wind Retrofit for One- and Two-Family Residences	✓	✓	
Infrastructure Retrofit	✓	✓	✓
Soil Stabilization	✓	✓	✓
Wildfire Mitigation	✓	✓	
Post-Disaster Code Enforcement	✓		
Advance Assistance	✓		
5 Percent Initiative Projects	✓		
Aquifer and Storage Recovery	✓	✓	✓
Flood Diversion and Storage	✓	✓	✓
Floodplain and Stream Restoration	✓	✓	✓
Green Infrastructure	✓	✓	✓
Miscellaneous/Other	✓	✓	✓
<b>2.Hazard Mitigation Planning</b>	✓	✓	✓
<b>3.Technical Assistance</b>			✓
<b>4. Management Costs</b>	✓	✓	✓

- Organize resources and reconvene the Hazard Mitigation Planning Committee (HMPC)
- Update the Plan's Risk Assessment
- Assess current capabilities
- Update the Mitigation Strategy
- Determine Plan Maintenance Process
- Obtain Mitigation Plan Approval and Adoption





- Plan development and participation
- Hazard Mitigation Planning Committee
- Meetings
  - **Kick-Off:** Thursday, December 14<sup>th</sup>
  - **Risk Assessment:** January
  - **Mitigation Solutions:** February
  - **Public Plan Review:** TBD
- Public and stakeholder participation
- Obtain Mitigation Plan State and Federal Approval and Adoption





## Planning Team

- Agencies that promote hazard mitigation
- Agencies that regulate development

## Stakeholders

- Public agencies
- Nonprofits
- Colleges and Universities
- Elected officials
- Business Leaders
- Others?



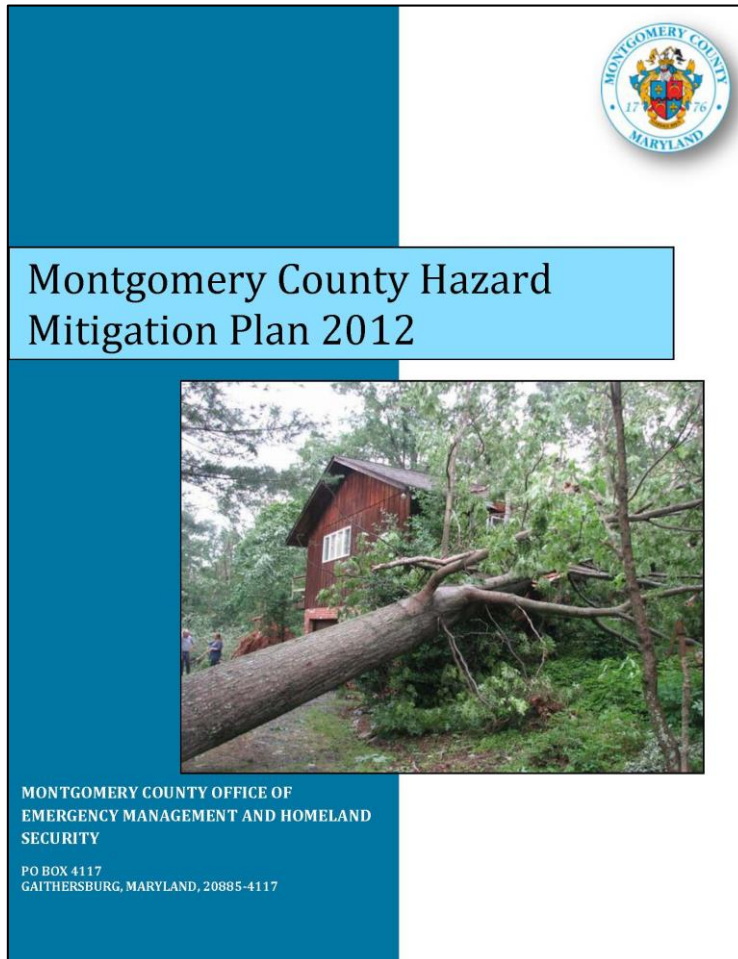
- Attend meeting(s)
- Provide local information
- Develop mitigation action(s)





- Publish public notice
- Host public meeting
- Online engagement





- Planning Process
  - Community Profile
- Hazard Identification and Risk Assessment (HIRA)
- Hazard Mitigation Strategy
  - Goals and objectives
  - Mitigation strategy
  - Mitigation capability analysis
- Plan Execution & Maintenance
  - Implementation
  - Evaluation, monitoring, and updating
  - Plan maintenance

- Establish the Planning Team
- Plan development and participation
- Public and other stakeholder participation
- Meetings
- Integrating existing planning mechanisms
- Plan completion, review and approval
- Local Adoption

## Planning Process

Community Profile

Risk Assessment

Capability Assessment

Mitigation Strategy

Plan Maintenance

- Geography and Environment
- Community Facts
- Population and Demographics
- Land Use and Development





- Identify hazards
- Profile hazards
- Complete Risk Assessment (Existing and New)
- Conduct vulnerability analysis



- Emergency Management
- Participation in the NFIP
- Planning and Regulatory Capability
- Administrative and Technical Capability
- Fiscal Capability
- Political Capability



- Goals and Objectives
- Existing HMP Mitigation Strategy Overview
- Mitigation Projects
- Implementation Plan





- Existing HMP Plan Maintenance Overview
- Monitoring, evaluating, and updating the plan
- Incorporation into other planning mechanisms
- Continued public involvement

Planning Process

Community Profile

Risk Assessment

Capability Assessment

Mitigation Strategy

Plan Maintenance

- The draft plan will be available for public review and comment
- The plan will be submitted to the Maryland Emergency Management Agency to review and approve
- The plan will be submitted to the Federal Emergency Management Agency to review and “approve pending adoption”



- Each jurisdiction and the County must adopt the County Hazard Mitigation Plan after receiving FEMA approval pending adoption
- The plan is to be updated 5 years after the first county or jurisdiction adopts







# Integrating Historic Property and Cultural Resource Considerations Into Hazard Mitigation Planning

State and Local Mitigation Planning How-To Guide  
FEMA 386-6 / May 2005



## State of Maryland Local Hazard Mitigation Plan Guidance

May 2015



A CENTER FOR PREPAREDNESS EXCELLENCE

- Enhanced HAZUS Analysis
- Cultural and historic properties and archaeological sites
- Expand upon capability assessment and plan integration

Date	Task Item
<b>November 2017</b>	Planning Process began
<b>December 14, 2017</b>	Official Project Kick-off Meeting
<b>January 2018</b>	Data Collection and Risk Assessment
<b>February 2018</b>	Risk Assessment Presentation and Feedback Meeting
<b>April 2018</b>	Hazard Mitigation Strategy Development Workshop/Meeting
<b>April 2018</b>	Hazard Mitigation Strategy Development
<b>May 2018</b>	Commissioners Presentation & Public Review
<b>July 2018</b>	Deliver to MEMA/FEMA for Review
<b>September 2018</b>	Distribute to Municipalities for Adoption





- How has the nature of hazard risk changed in the last five years? Is there new development?
- Are the current resources to implement mitigation actions sufficient?
- Are the fiscal, administrative, political, public support, capability, etc. sufficient?

- Are there additional opportunities for improvement?
- Are there additional resources that would help you?
- Overall what are the biggest obstacles to implementing the plan and completing mitigation actions?







- Identify any new hazards that affect the County.
- Full hazard profile includes:
  - Location and extent
  - Range of magnitude
  - Past occurrence
  - Future occurrence
  - Vulnerability assessment



Hazards identified in 2012 Montgomery County HMP	Hazards identified in 2016 Maryland State HMP
Thunderstorm	Thunderstorm
Winter Storm	Winter Storm
Extreme Heat	Coastal Hazards
Flooding	Flooding
Hurricane/Tropical Storm	Wind
Fire	Wildfire
Water Shortage	Drought
Tornado	Tornado
Earthquake	
Land Subsidence/Karst	
Hazardous Materials*	
Dam Failure*	

\* Man-made hazards

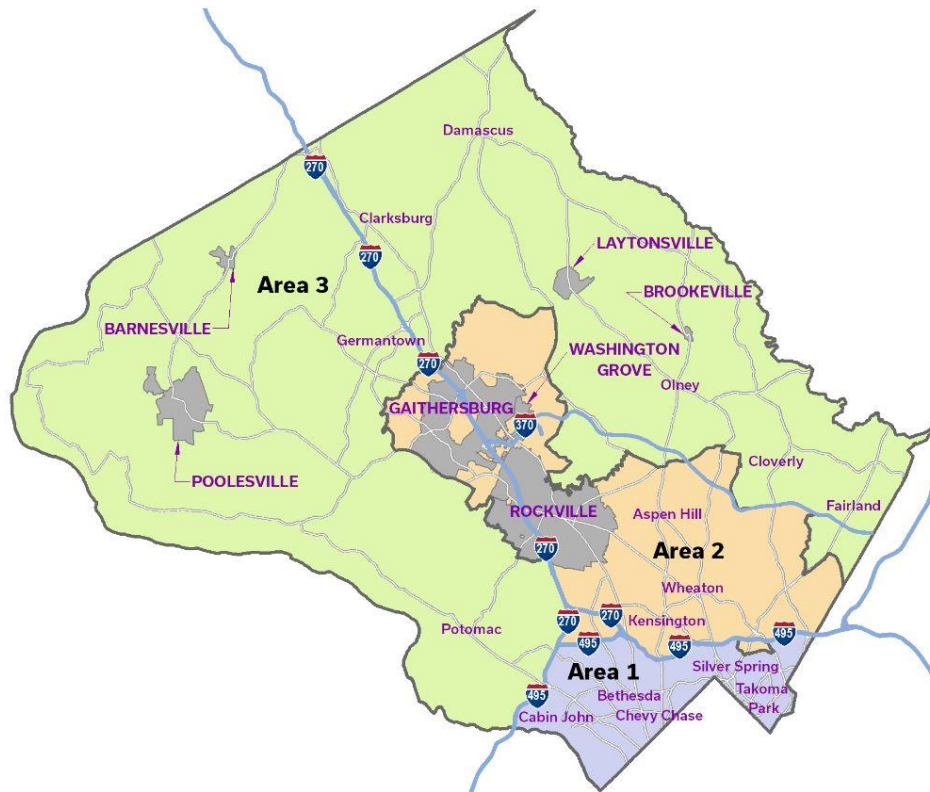
- Are there any additional hazards we should profile in the 2018 HMP Update?
- Fill out the Evaluation of Identified Hazards and Risk Worksheet to let us know!

- This exercise allows you to evaluate previously profiled hazards and to identify any new hazards that may exist.
  - PART I: Note any changes in frequency, magnitude or geographic extent by placing a “NC”, “I” or “D” in the 2nd column.
  - PART II: Evaluate list of hazards NOT profiled in existing HMP.









*Community Areas designated by Montgomery County Planning Department*

- Planning and Regulatory
- Administrative and Technical
- Financial
- Education and Outreach
- Participation in the NFIP
- Plan Integration
- Activity about capabilities will be conducted today

- Capability Assessment Survey
  - Information used to evaluate jurisdictional capabilities and plan development
  - One per jurisdiction / stakeholder
  - Can be emailed to project team









- Document existing mitigation actions and identify new ones.
- Assess hazard mitigation goals, objectives, and actions as they relate to reducing loss of life and property from natural and human-made hazards.



- Each municipality must have at least one mitigation action.
- There must be at least one mitigation action for each profiled hazard.
- Mitigation actions should be realistic and sustainable.
- 2012 Hazard Mitigation Plan MP: 37 new actions
  - 11 continued/modified from 2006





## Local Mitigation Planning Handbook

March 2013



FEMA

- Updated FEMA mitigation planning guidance identifies four mitigation techniques:
  - Plans and Regulations
  - Structure and Infrastructure Projects
  - Natural Systems Protection
  - Education and Awareness Programs



- Government authorities, policies, or codes that influence the way land and buildings are developed and built such as:
  - Comprehensive Plans
  - Subdivision Regulations
  - Building Codes and Enforcement
  - Capital Improvement Programs
  - Stormwater Management Plans
  - Emergency Operations Plans
  - Hurricane Evacuation Plans





- Modifying existing structures and infrastructure to remove from a hazard area
- Construction of manmade structures to reduce impacts of hazards

- Actions that minimize damage and losses and also preserve or restore the functions of natural systems
  - Sediment and erosion control
  - Stream corridor restoration
  - Forest management
  - Conservation easements
  - Wetland restoration and preservation







- National preventative programs
- Mailings to hazard-prone communities
- Websites with maps and information
- Presentations to community groups
- Radio or TV spots







- Visit [www.montgomerycountymd.gov/OEMHS](http://www.montgomerycountymd.gov/OEMHS)
- Online home of the planning process



## Severe Storms

Severe weather, including lightning, hail, flooding, and strong wind, is most common during the spring and summer months. Occasionally, tornadoes and hurricanes can also occur.

### Remember:

- A Severe Storm / Thunderstorm **Watch** means that there is a possibility of storm activity in the area.
- A Severe Storm / Thunderstorm **Warning** means that activity is occurring or will occur soon; take shelter immediately.

### Prior to the Emergency

- Ensure that you have enough food, water, medication (if needed) and batteries. Because power is often lost during severe storms, food that does not require cooking should be considered.
- Check portable radios, smoke detectors, and flashlights to ensure they are properly operating and that the batteries are fresh.
- Stay tuned to local weather and news reports. If emergency officials tell you to evacuate, do so without delay.
- If you are located in a low-lying area and flooding is anticipated, remove furniture and valuables from the areas that are prone to water accumulation.

Tip: For more information on flood insurance, visit FEMA's Floodsmart website at <http://www.floodsmart.gov>

- If strong winds are predicted (in excess of 70 miles per hour), consider boarding up your windows to prevent breakage. Also, trash cans and other items around the yard should be taken indoors to prevent the wind from carrying them away.
- Run necessary errands before severe weather begins; don't wait until the storm begins to venture outside.
- Ensure that your vehicle is fueled. Don't drive during the storm unless it is necessary. If you must, stay away from roads near rivers and streams and areas where flooding may occur. **Never cross over a roadway that has flowing water.** If your vehicle stalls, abandon it immediately and seek higher ground.

### During the Emergency

- Hazard Mitigation Plan Steering Committee:
  - Complete Hazard-Risk Evaluation
  - Complete Capability Assessment
- Project Team:
  - Update project website with meeting materials
  - Distribute data requests

**Next Meeting: Date TBD**





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